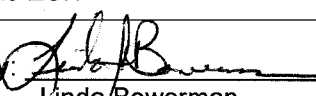


EENS Job Risk Assessment

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Name(s) of Risk Team Members:	Point Value → Parameter ↓	1	2	3	4	5
Job Title: Working with Nanomaterials in Solution	Frequency (B)	≤once/year	≤once/month	≤once/week	≤once/shift	>once/shift
JRA #: EENS-JRA-028						
Rev. #: 0 Date: 5/10/08						
Job Description: J. Fitts, D Mahajan, P. Carr, L Bowerman, J Peters, S. Ferrone	Severity (C)	First Aid Only	Medical Treatment	Lost Time	Partial Disability	Death or Permanent Disability
Training and Procedure List (Optional): Lab Standard, SBMS Interim Procedure "Approach to Nanomaterials ESH"	Likelihood (D)	Extremely Unlikely	Unlikely	Possible	Probable	Multiple
Approved by:  Date: 05/15/08 Linda Bowerman						
Stressors (if applicable, please list all): N/A		Reason for Revision (if applicable): N/A			Comments: * Use BOTH Hazardous and Nano Waste Labels.	

				Before Additional Controls						After Additional Controls						
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
Handling liquid slurry nanomaterials	Skin contact	Work Planning & Control (ESR). Training: Lab Standard; SBMS Interim Procedure "Approach to Nanomaterials ESH". Posting of designated areas, labeling containers, containers specific for materials and operation. PPE - lab coat, long pants, closed toed shoes, safety glasses, nitrile gloves or gloves with good chemical resistance to chemicals being used Housekeeping: - wet wiping at end of work day. Tier I Inspection.	-	1	4	2	2	16								
Handling nano-materials with known hazardous constituent(s)		See EENS JRA # 8 Work with Hazardous Chemicals. SBMS Interim Procedure "Approach to Nanomaterials ESH".	-	-	-	-	-	-								
Transporting nano-materials on and offsite	Spillage via tripping, dropping; exposure	See EENS JRA #25 Transporting Chemicals &/or Rad. Materials. Work Planning & Control (ESR).	-	-	-	-	-	-								

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								Before Additional Controls								After Additional Controls			
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction			
		SBMS Interim Procedure "Approach to Nanomaterials ESH". Container specific to hazard & operation, use of small volumes, PPE, labeling, secondary containment, absorbent material, spill response,																	
Using sonicator		See EENS JRA #17 Work in Noise Areas.	-	-	-	-	-	-											
Glassware washing	Environmental release	Work Planning & Control (ESR). Quick rinse, and collect first rinse as nano/hazardous waste*.	-	1	4	2	2	16											
	Skin contact	SBMS Interim Procedure "Approach to Nanomaterials ESH" Posting of designated areas & labeling containers, PPE - lab coat, long pants, closed toed shoes, safety glasses, nitrile gloves or gloves with good chemical resistance to chemicals being used Housekeeping: - wet wiping at end of work day	-	1	4	2	2	16											
Use of sharps (non medical)		See EENS JRA #8 Work with Hazardous Chemicals. Dispose of spill material as nano/hazardous waste*.	-	-	-	-	-	-											
Disposal of nanomaterials & nanomaterials containing waste		See EENS JRA #8 Work with Hazardous Chemicals. SBMS Interim Procedure "Approach to Nanomaterials ESH" Dispose of as nano/hazardous waste*.	-	-	-	-	-	-											
Spills	Skin contact ; environmental release	Work Planning & Control (ESR). Incidental spills - wet wipe - don't let dry Dispose of spill material as nano/hazardous waste*.	-	1	4	2	2	16											
Further Description of Controls Added to Reduce Risk:																			
*Risk:	0 to 20	21 to 40	41-60					61 to 80			81 or greater								
	Negligible	Acceptable	Moderate					Substantial			Intolerable								